

## Executive Summary Preliminary Assessment Of Coliseum Boulevard Plume

The Coliseum Boulevard Plume is located in North Montgomery and covers approximately 600 acres. This 600 acre site has a solvent, trichloroethylene, as a contaminant in the groundwater below the site. This contaminated groundwater is located at a depth of 25 to 45 feet below the surface of the ground at the site. The water in one ditch across from the Winn Dixie Shopping Center is also contaminated with low levels of trichloroethylene. This water in this ditch flows to the Northern Boulevard. The 600 acre site includes the neighborhoods of Chisholm, Eastern Meadows, and Vista View. The Chisholm Community Center, the Chisholm Elementary School and the Montgomery Zoo are located on the north part of the site. The State of Alabama Department of Transportation Materials and Tests offices and laboratory and the Department of Finance Printing and Publications facility are located in the south central part of the site.

The Chisholm Community was built in the 1940's and 1950's and has a population of approximately 2,112 residents. The Eastern Meadows subdivision was built in the 1980's and has a population of 330 residents. The Vista View subdivision was built in the 1980's and is still under construction. It has approximately 555 residents. The Vista View and Eastern Meadows subdivisions are on property that was part of Kilby Prison. The land was used to grow crops from 1921 until the 1960's. It was bought by Alfa Mutual Fire Insurance Company in 1972 and was developed for homes.

The State of Alabama Department of Transportation Materials and Tests Bureau Offices and Laboratory are located in the south central part of the site. The Laboratory was built in 1961. The offices were built in the 1970's. The laboratory has used trichloroethylene in its asphalt testing laboratories. Approximately 5 gallons of trichloroethylene is used each month and recycled at the site.

The Department of Finance Printing and Publications facility is located in the south central part of the site. This facility also uses very small quantities of trichloroethylene in its printing operations. This building was built in 1987. Other users of trichloroethylene may be identified later.

Drinking water for the City of Montgomery is not contaminated. The City of Montgomery public water supply is not affected by this contamination. The wells that supply the city are not located in this area. The City of Montgomery water supply is comprised of 34 % groundwater that is drawn from 45 wells. The closest well to the site serving the City of Montgomery is approximately 1 mile away from the site. Almost 66% of the Montgomery public water supply comes from the Tallapoosa River.

During a series of test events during the past year, groundwater in the Coliseum Boulevard Plume was tested. These tests were performed by ALFA, the Alabama Department of Transportation and the Alabama Department of Environmental Management. The series of test events started in a small area and added more areas of contamination as more results were completed. The following table lists some of the groundwater and surface water test results:

<b>Analytical Results Coliseum Boulevard Plume</b>			
<b>Sample ID</b>	<b>Date Collected</b>	<b>Type</b>	<b>Trichloroethene ( <math>\mu</math>g/L)</b>
ALFA/MW-1	11/18/99	Groundwater	468.7
ALFA/MW-2	11/18/99	Groundwater	9.70
ALFA/MW-3	11/18/99	Groundwater	204.1
ALFA/MW-4	11/17/99	Groundwater	<MDL
ALFA/MW-5	11/18/99	Groundwater	18.5
PH2/W2	2/16/00	Groundwater	977.5
PH-11/27-28	2/23/00	Groundwater	6,880
PH-12/48-51	2/29/00	Groundwater	5,552.5
CBP/SW/W2	3/2/00	Surface Water	< MDL
CBP/SW/W3	3/2/00	Surface Water	168.2
CBP/SW/W4	3/2/00	Surface Water	43.1
PH19/13-14	5/10/00	Groundwater	< MDL
PH21/54-56	5/12/00	Groundwater	7.81
PH24/28-30	5/18/00	Groundwater	20.4

MDL – Method Detection Limit

During these sessions, maps located at several stations show sampling locations

Water in the ditches in the Coliseum Boulevard Plume area was also tested. Water in one ditch across from the Winn Dixie Shopping Center on Coliseum Boulevard has trichloroethylene in low concentrations in it. This contamination was identified at 168 ppb(parts per billion) of trichloroethylene. Water in other ditches in the area has been tested but no contamination has been found. This contaminated ditch flows from Coliseum Boulevard to the Northern Boulevard. At a point north of the Northern Boulevard the contamination is no longer detectable. The ditch eventually flows into Three Mile Branch and later Galbraith Mill Creek. Galbraith Mill Creek flows into the Alabama River.

Currently, there is concern that residents may come in contact with water from the Coliseum Boulevard ditch. Based on the assessment conducted by the Department of Environmental Management, further study of this site is recommended.

A more detailed copy of this report is available for review at the ADEM office upon request from 8:00 until 4:30 each day.